

Hongyu Wang

List of Publications by Year in descending order

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112
papers

5,133
citations

70961

41
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all docs

112
docs citations

112
times ranked

4260
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of Pb(II), Cu(II), and Cd(II) from aqueous solutions by biochar derived from KMnO ₄ treated hickory wood. <i>Bioresource Technology</i> , 2015, 197, 356-362.	4.8	436
2	Aerobic denitrification: A review of important advances of the last 30 years. <i>Biotechnology and Bioprocess Engineering</i> , 2015, 20, 643-651.	1.4	361
3	Simultaneous nitrification, denitrification and phosphorus removal in an aerobic granular sequencing batch reactor with mixed carbon sources: reactor performance, extracellular polymeric substances and microbial successions. <i>Chemical Engineering Journal</i> , 2018, 331, 841-849.	6.6	242
4	Simultaneous nitrification, denitrification and phosphorus removal in an aerobic granular sludge sequencing batch reactor with high dissolved oxygen: Effects of carbon to nitrogen ratios. <i>Science of the Total Environment</i> , 2018, 642, 1145-1152.	3.9	140
5	Novel pectin based composite hydrogel derived from grapefruit peel for enhanced Cu(II) removal. <i>Journal of Hazardous Materials</i> , 2020, 384, 121445.	6.5	137
6	Microbial population dynamics during sludge granulation in an A/O/A sequencing batch reactor. <i>Bioresource Technology</i> , 2016, 214, 1-8.	4.8	123
7	Multicavity triethylenetetramine-chitosan/alginate composite beads for enhanced Cr(VI) removal. <i>Journal of Cleaner Production</i> , 2019, 231, 733-745.	4.6	120
8	Enhanced simultaneous nitrification, denitrification and phosphorus removal through mixed carbon source by aerobic granular sludge. <i>Journal of Hazardous Materials</i> , 2020, 382, 121043.	6.5	113
9	Functionalization of 4-aminothiophenol and 3-aminopropyltriethoxysilane with graphene oxide for potential dye and copper removal. <i>Journal of Hazardous Materials</i> , 2016, 310, 179-187.	6.5	106
10	Enhanced nitrogen removal in an aerobic granular sequencing batch reactor performing simultaneous nitrification, endogenous denitrification and phosphorus removal with low superficial gas velocity. <i>Chemical Engineering Journal</i> , 2017, 326, 1223-1231.	6.6	105
11	Hydrodynamic shear force shaped the microbial community and function in the aerobic granular sequencing batch reactors for low carbon to nitrogen (C/N) municipal wastewater treatment. <i>Bioresource Technology</i> , 2019, 271, 48-58.	4.8	97
12	A facile synthesis of core-shell/bead-like poly (vinyl alcohol)/alginate@PAM with good adsorption capacity, high adaptability and stability towards Cu(II) removal. <i>Chemical Engineering Journal</i> , 2018, 351, 462-472.	6.6	94
13	Natural sunlight induced rapid formation of water-born algal-bacterial granules in an aerobic bacterial granular photo-sequencing batch reactor. <i>Journal of Hazardous Materials</i> , 2018, 359, 222-230.	6.5	94
14	Efficient heavy metal removal from water by alginate-based porous nanocomposite hydrogels: The enhanced removal mechanism and influencing factor insight. <i>Journal of Hazardous Materials</i> , 2021, 418, 126358.	6.5	93
15	Hybrid functionalized chitosan-Al ₂ O ₃ @SiO ₂ composite for enhanced Cr(VI) adsorption. <i>Chemosphere</i> , 2018, 203, 188-198.	4.2	84
16	Microbial community in a hydrogenotrophic denitrification reactor based on pyrosequencing. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 10829-10837.	1.7	83
17	Elevated salinity deteriorated enhanced biological phosphorus removal in an aerobic granular sludge sequencing batch reactor performing simultaneous nitrification, denitrification and phosphorus removal. <i>Journal of Hazardous Materials</i> , 2020, 390, 121782.	6.5	81
18	Performance and microbial communities in a combined bioelectrochemical and sulfur autotrophic denitrification system at low temperature. <i>Chemosphere</i> , 2018, 193, 337-342.	4.2	80

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19	Simultaneous nitrification, denitrification and phosphorus removal in aerobic granular sequencing batch reactors with high aeration intensity: Impact of aeration time. <i>Bioresource Technology</i> , 2018, 263, 214-222.	4.8	76
20	A high-throughput sequencing study of bacterial communities in an autohydrogenotrophic denitrifying bio-ceramsite reactor. <i>Process Biochemistry</i> , 2015, 50, 1904-1910.	1.8	65
21	A comprehensive comparison between non-bulking and bulking aerobic granular sludge in microbial communities. <i>Bioresource Technology</i> , 2019, 294, 122151.	4.8	65
22	Novel talc encapsulated lanthanum alginate hydrogel for efficient phosphate adsorption and fixation. <i>Chemosphere</i> , 2020, 256, 127124.	4.2	65
23	A pilot-scale study on the treatment of landfill leachate by a composite biological system under low dissolved oxygen conditions: Performance and microbial community. <i>Bioresource Technology</i> , 2020, 296, 122344.	4.8	64
24	Highly efficient removal of Cr(VI) and Cu(II) by biochar derived from <i>Artemisia argyi</i> stem. <i>Environmental Science and Pollution Research</i> , 2019, 26, 13221-13234.	2.7	61
25	Effects of phenol on extracellular polymeric substances and microbial communities from aerobic granular sludge treating low strength and salinity wastewater. <i>Science of the Total Environment</i> , 2021, 752, 141785.	3.9	61
26	Adaptation to salinity: Response of biogas production and microbial communities in anaerobic digestion of kitchen waste to salinity stress. <i>Journal of Bioscience and Bioengineering</i> , 2020, 130, 173-178.	1.1	60
27	Response and recovery of aerobic granular sludge to pH shock for simultaneous removal of aniline and nitrogen. <i>Chemosphere</i> , 2019, 221, 366-374.	4.2	58
28	Removal performance and microbial communities in a sequencing batch reactor treating hypersaline phenol-laden wastewater. <i>Bioresource Technology</i> , 2016, 218, 146-152.	4.8	57
29	Sorption of lead ions onto oxidized bagasse-biochar mitigates Pb-induced oxidative stress on hydroponically grown chicory: Experimental observations and mechanisms. <i>Chemosphere</i> , 2018, 208, 887-898.	4.2	56
30	Robustness of an aerobic granular sludge sequencing batch reactor for low strength and salinity wastewater treatment at ambient to winter temperatures. <i>Journal of Hazardous Materials</i> , 2020, 384, 121454.	6.5	56
31	Unraveling characteristics of simultaneous nitrification, denitrification and phosphorus removal (SNDPR) in an aerobic granular sequencing batch reactor. <i>Bioresource Technology</i> , 2016, 220, 651-655.	4.8	51
32	Autotrophic denitrification by nitrate-dependent Fe(II) oxidation in a continuous up-flow biofilter. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 277-284.	1.7	51
33	Insight into the impact of ZnO nanoparticles on aerobic granular sludge under shock loading. <i>Chemosphere</i> , 2017, 173, 411-416.	4.2	51
34	Tolerance of an aerobic denitrifier (<i>Pseudomonas stutzeri</i>) to high O ₂ concentrations. <i>Biotechnology Letters</i> , 2014, 36, 719-722.	1.1	49
35	Performance and microbial population dynamics during stable operation and reactivation after extended idle conditions in an aerobic granular sequencing batch reactor. <i>Bioresource Technology</i> , 2017, 238, 116-121.	4.8	48
36	Direct interspecies electron transfer stimulated by granular activated carbon enhances anaerobic methanation efficiency from typical kitchen waste lipid-rape seed oil. <i>Science of the Total Environment</i> , 2020, 704, 135282.	3.9	48

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37	Highly selective and sustainable clean-up of phosphate from aqueous phase by eco-friendly lanthanum cross-linked polyvinyl alcohol/alginate/palygorskite composite hydrogel beads. <i>Journal of Cleaner Production</i> , 2021, 298, 126878.	4.6	48
38	Comparison of performance and microbial communities in a bioelectrochemical system for simultaneous denitrification and chromium removal: Effects of pH. <i>Process Biochemistry</i> , 2018, 73, 154-161.	1.8	46
39	Microbial community and metabolism activity in a bioelectrochemical denitrification system under long-term presence of p-nitrophenol. <i>Bioresource Technology</i> , 2016, 218, 189-195.	4.8	44
40	Microbial community and function evaluation in the start-up period of bioaugmented SBR fed with aniline wastewater. <i>Bioresource Technology</i> , 2021, 319, 124148.	4.8	44
41	Characteristics of phenol degradation in saline conditions of a halophilic strain JS3 isolated from industrial activated sludge. <i>Marine Pollution Bulletin</i> , 2015, 99, 230-234.	2.3	43
42	Investigation of rapid granulation in SBRs treating aniline-rich wastewater with different aniline loading rates. <i>Science of the Total Environment</i> , 2019, 646, 841-849.	3.9	42
43	Simultaneous removal of aniline, nitrogen and phosphorus in aniline-containing wastewater treatment by using sequencing batch reactor. <i>Bioresource Technology</i> , 2016, 207, 422-429.	4.8	41
44	Interaction and removal of oxytetracycline with aerobic granular sludge. <i>Bioresource Technology</i> , 2021, 320, 124358.	4.8	41
45	Chronic responses of aerobic granules to zinc oxide nanoparticles in a sequencing batch reactor performing simultaneous nitrification, denitrification and phosphorus removal. <i>Bioresource Technology</i> , 2017, 238, 95-101.	4.8	40
46	Phenol degradation by halophilic fungal isolate JS4 and evaluation of its tolerance of heavy metals. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 1883-1890.	1.7	39
47	Biodegradation of phenol by entrapped cell of <i>Debaryomyces</i> sp. with nano-Fe ₃ O ₄ under hypersaline conditions. <i>International Biodeterioration and Biodegradation</i> , 2017, 123, 37-45.	1.9	38
48	Aerobic denitrification by <i>Pseudomonas stutzeri</i> C3 incapable of heterotrophic nitrification. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 407-409.	1.7	36
49	Nitrate removal from groundwater by hydrogen-fed autotrophic denitrification in a bio-ceramsite reactor. <i>Water Science and Technology</i> , 2014, 69, 2417-2422.	1.2	35
50	Nitrate and COD removal in an upflow biofilter under an aerobic atmosphere. <i>Bioresource Technology</i> , 2014, 158, 156-160.	4.8	34
51	Nitrate removal in a combined bioelectrochemical and sulfur autotrophic denitrification system under high nitrate concentration: effects of pH. <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 449-455.	1.7	34
52	Toxic effects of vanadium (V) on a combined autotrophic denitrification system using sulfur and hydrogen as electron donors. <i>Bioresource Technology</i> , 2018, 264, 319-326.	4.8	34
53	Effects of current intensities on the performances and microbial communities in a combined bio-electrochemical and sulfur autotrophic denitrification (CBSAD) system. <i>Science of the Total Environment</i> , 2019, 694, 133775.	3.9	34
54	Studies of malachite green adsorption on covalently functionalized Fe ₃ O ₄ @SiO ₂ "graphene oxides core-shell" magnetic microspheres. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 82, 424-431.	1.1	33

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55	Scavenging effect of oxidized biochar against the phytotoxicity of lead ions on hydroponically grown chicory: An anatomical and ultrastructural investigation. <i>Ecotoxicology and Environmental Safety</i> , 2019, 170, 363-374.	2.9	33
56	A novel magnetic biochar from sewage sludge: synthesis and its application for the removal of malachite green from wastewater. <i>Water Science and Technology</i> , 2016, 74, 1971-1979.	1.2	31
57	Photo-reduction of Ag nanoparticles by using cellulose-based micelles as soft templates: Catalytic and antimicrobial activities. <i>Carbohydrate Polymers</i> , 2019, 213, 419-427.	5.1	30
58	Bacterial communities in a novel three-dimensional bioelectrochemical denitrification system: the effects of pH. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6805-6813.	1.7	29
59	Research on the aerobic granular sludge under alkalinity in sequencing batch reactors: Removal efficiency, metagenomic and key microbes. <i>Bioresource Technology</i> , 2020, 296, 122280.	4.8	29
60	Rapid formation and pollutant removal ability of aerobic granules in a sequencing batch airlift reactor at low temperature. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 3078-3085.	1.2	28
61	Insights into the simultaneous nitrification, denitrification and phosphorus removal process for in situ sludge reduction and potential phosphorus recovery. <i>Science of the Total Environment</i> , 2021, 801, 149569.	3.9	28
62	Culture of denitrifying phosphorus removal granules with different influent wastewater. <i>Desalination and Water Treatment</i> , 2016, 57, 17247-17254.	1.0	27
63	Response of a three dimensional bioelectrochemical denitrification system to the long-term presence of graphene oxide. <i>Bioresource Technology</i> , 2016, 214, 24-29.	4.8	27
64	Cr(VI) removal by combined redox reactions and adsorption using pectin-stabilized nanoscale zero-valent iron for simulated chromium contaminated water. <i>RSC Advances</i> , 2015, 5, 65068-65073.	1.7	26
65	Elucidation of microbial characterization of aerobic granules in a sequencing batch reactor performing simultaneous nitrification, denitrification and phosphorus removal at varying carbon to phosphorus ratios. <i>Bioresource Technology</i> , 2017, 241, 127-133.	4.8	24
66	Response of aerobic sludge to AHL-mediated QS: Granulation, simultaneous nitrogen and phosphorus removal performance. <i>Chinese Chemical Letters</i> , 2021, 32, 3402-3409.	4.8	24
67	Adsorption of Cr(VI) and Cu(II) from aqueous solutions by biochar derived from <i>Chaenomeles sinensis</i> seed. <i>Water Science and Technology</i> , 2019, 80, 2260-2272.	1.2	22
68	Weak magnetic field affected microbial communities and function in the A/O/A sequencing batch reactors for enhanced aerobic granulation. <i>Separation and Purification Technology</i> , 2021, 266, 118537.	3.9	21
69	Isolation and Characterization of <i>Pseudoxanthomonas</i> sp. Strain YP1 Capable of Denitrifying Phosphorus Removal (DPR). <i>Geomicrobiology Journal</i> , 2018, 35, 537-543.	1.0	17
70	Distinct responses of aerobic granular sludge sequencing batch reactors to nitrogen and phosphorus deficient conditions. <i>Science of the Total Environment</i> , 2022, 834, 155369.	3.9	17
71	Effects of important factors on hydrogen-based autotrophic denitrification in a bioreactor. <i>Desalination and Water Treatment</i> , 2016, 57, 3482-3488.	1.0	15
72	Impacts of poly-aluminum chloride addition on activated sludge and the treatment efficiency of SBR. <i>Desalination and Water Treatment</i> , 2015, 54, 2376-2381.	1.0	14

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73	Role of weak magnetic strength in the operation of aerobic granular reactor for wastewater treatment containing ammonia nitrogen concentration gradient. <i>Bioresource Technology</i> , 2021, 322, 124570.	4.8	14
74	Characterization and biodegradation potential of an aniline-degrading strain of <i>Pseudomonas</i> JA1 at low temperature. <i>Desalination and Water Treatment</i> , 2016, 57, 25011-25017.	1.0	13
75	Synthesis and characterization of a novel magnetic biochar from sewage sludge and its effectiveness in the removal of methyl orange from aqueous solution. <i>Water Science and Technology</i> , 2017, 75, 1539-1547.	1.2	13
76	Constructed wetland using corncob charcoal substrate: pollutants removal and intensification. <i>Water Science and Technology</i> , 2017, 76, 1300-1307.	1.2	13
77	Treatment of landfill leachate RO concentration by Iron-carbon micro-electrolysis (ICME) coupled with H_2O_2 with emphasis on convex optimization method. <i>Environmental Pollutants and Bioavailability</i> , 2019, 31, 49-55.	1.3	13
78	La/Al engineered bentonite composite for efficient phosphate separation from aqueous media: Preparation optimization, adsorptive behavior and mechanism insight. <i>Separation and Purification Technology</i> , 2022, 290, 120894.	3.9	13
79	High nitrate removal by autohydrogenotrophic bacteria in a biofilm-electrode reactor. <i>Desalination and Water Treatment</i> , 0, , 1-9.	1.0	12
80	Nitrate removal by nitrate-dependent Fe(II) oxidation in an upflow denitrifying biofilm reactor. <i>Water Science and Technology</i> , 2015, 72, 377-383.	1.2	12
81	Autotrophic denitrification with anaerobic Fe ²⁺ oxidation by a novel <i>Pseudomonas</i> sp. W1. <i>Water Science and Technology</i> , 2015, 71, 1081-1087.	1.2	12
82	Batch and fixed-bed column study for p-nitrophenol, methylene blue, and U(VI) removal by polyvinyl alcohol-graphene oxide macroporous hydrogel bead. <i>Water Science and Technology</i> , 2018, 77, 91-100.	1.2	12
83	Phenol biodegradation by isolated <i>Citrobacter</i> strain under hypersaline conditions. <i>Water Science and Technology</i> , 2018, 77, 504-510.	1.2	12
84	Optimization of operation conditions for preventing sludge bulking and enhancing the stability of aerobic granular sludge in sequencing batch reactors. <i>Water Science and Technology</i> , 2014, 70, 1519-1525.	1.2	11
85	Bio-augmentation as a tool for improving the modified sequencing batch biofilm reactor. <i>Journal of Bioscience and Bioengineering</i> , 2014, 117, 763-768.	1.1	11
86	Study on treating old landfill leachate by Ultrasound-Fenton oxidation combined with MAP chemical precipitation. <i>Chemical Speciation and Bioavailability</i> , 2015, 27, 175-182.	2.0	11
87	Reduction of highly concentrated phosphate from aqueous solution using pectin-nanoscale zerovalent iron (PNZVI). <i>Water Science and Technology</i> , 2016, 73, 2689-2696.	1.2	11
88	Feasibility and optimization of wastewater treatment by chemically enhanced primary treatment (CEPT): a case study of Huangshi. <i>Chemical Speciation and Bioavailability</i> , 2016, 28, 209-215.	2.0	11
89	Synchronous gelation and lanthanum introduction using bentonite/PVA/SA as the matrix for efficient phosphate removal from aqueous media: Adsorptive behavior and mechanism study. <i>Journal of Cleaner Production</i> , 2022, 339, 130763.	4.6	11
90	Ecotoxicological assessment of toxic elements contamination in mangrove ecosystem along the Red Sea coast, Egypt. <i>Marine Pollution Bulletin</i> , 2022, 176, 113446.	2.3	11

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91	Characteristics of nitrate removal in a bio-ceramsite reactor by aerobic denitrification. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 1457-1463.	1.2	10
92	Effects of temperature on aerobic denitrification in a bio-ceramsite reactor. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 3236-3241.	1.2	10
93	Immobilization of halophilic yeast for effective removal of phenol in hypersaline conditions. <i>Water Science and Technology</i> , 2018, 77, 706-713.	1.2	10
94	Physically-crosslinked activated CaCO ₃ /polyaniline-polypyrrole-modified GO/alginate hydrogel sorbent with highly efficient removal of copper(II) from aqueous solution. <i>Chemical Engineering Journal</i> , 2022, 431, 133375.	6.6	10
95	Effective biodegradation of nitrate, Cr(VI) and p-fluoronitrobenzene by a novel three dimensional bioelectrochemical system. <i>Bioresource Technology</i> , 2016, 203, 370-373.	4.8	9
96	Preparation of Cellulose/Chitin Blend Materials and Influence of Their Properties on Sorption of Heavy Metals. <i>Sustainability</i> , 2021, 13, 6460.	1.6	9
97	Domestic wastewater treatment in a novel sequencing batch biofilm filter. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 5731-5738.	1.7	8
98	Impact of microwave treatment on dewaterability of sludge during Fenton oxidation. <i>Desalination and Water Treatment</i> , 2016, 57, 14424-14432.	1.0	8
99	Nitrate removal by a combined bioelectrochemical and sulfur autotrophic denitrification (CBSAD) system at low temperatures. <i>Desalination and Water Treatment</i> , 2016, 57, 19411-19417.	1.0	8
100	<i>Ochrobactrum anthropi</i> used to control ammonium for nitrate removal by starch-stabilized nanoscale zero valent iron. <i>Water Science and Technology</i> , 2017, 76, 1827-1832.	1.2	8
101	Characteristics of Nitrate Reduction Using Fe (II) as Electron Donor in Activated Sludge. <i>Geomicrobiology Journal</i> , 2016, 33, 505-512.	1.0	7
102	Enhanced removal of hexavalent chromium from aqueous solution by functional polymer-wrapped gamma-alumina composite adsorbent. <i>Environmental Technology and Innovation</i> , 2021, 24, 101954.	3.0	7
103	Investigation of equilibrium and kinetics of Cr(VI) adsorption by dried <i>Bacillus cereus</i> using response surface methodology. <i>Water Science and Technology</i> , 2016, 73, 617-627.	1.2	6
104	Odor removal by powdered activated carbon (PAC) in low turbidity drinking water. <i>Water Science and Technology: Water Supply</i> , 2016, 16, 1017-1023.	1.0	6
105	Lotus seedpod as a low-cost biomass for potential methylene blue adsorption. <i>Water Science and Technology</i> , 2016, 74, 2560-2568.	1.2	5
106	Optimization of process variables by dried <i>Bacillus cereus</i> for biosorption of nickel(II) using response surface method. <i>Desalination and Water Treatment</i> , 2016, 57, 16096-16103.	1.0	5
107	Biosorption of copper and nickel ions using <i>Pseudomonas</i> sp. in single and binary metal systems. <i>Desalination and Water Treatment</i> , 2016, 57, 2799-2808.	1.0	4
108	Partial nitrification of non-ammonium-rich wastewater within biofilm filters under ambient temperature. <i>Water Science and Technology</i> , 2010, 62, 1518-1525.	1.2	3

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109	Comparison of Performance in a Bioelectrochemical System for Simultaneous Denitrification and Vanadate (V) Removal Using Hydrogen as the Sole Electron Donor. <i>Geomicrobiology Journal</i> , 2020, 37, 301-307.	1.0	3
110	Removal of color caused by dissolved organic matter from groundwater by electroflotation-filtration continuous flow reactor and optimization by response surface methodology. <i>Desalination and Water Treatment</i> , 2016, 57, 754-764.	1.0	1
111	Diversity and distribution of nirS-type denitrifiers as a biological indicator in response to environmental gradients in the eutrophied Haizhou Bay, China. <i>Environmental Pollutants and Bioavailability</i> , 2019, 31, 182-188.	1.3	1
112	Self-Aggregation and Denitrifying Strains Accelerate Granulation and Enhance Denitrification. <i>Water (Switzerland)</i> , 2022, 14, 1482.	1.2	0